

4/16/11

of the flat side surface 48 is more than a third of the total height of the first tap channel 37.

IN THE CLAIMS:

\ Please cancel Claims 5, 6, 18, 20, 22-23 without prejudice.

Please amend the following claim(s) as rewritten below:

1. (Amended) An electrical compression connector comprising:

a first section having a first conductor receiving channel extending into a top side of the connector; and

A 2
a second section integrally formed with the first section, the second section having a second and a third conductor receiving channel extending into opposite respective first and second lateral sides of the connector,

wherein the second conductor receiving channel comprises opposing concave surfaces having different shapes, wherein a first one of the concave surfaces has a first radius of curvature and a second one of the concave surfaces has a second different radius of curvature, and wherein the second radius of curvature is at least about 25% smaller than the first radius of curvature.

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8. (Amended) An electrical compression connector as in claim 7 wherein an aperture is provided between a tip of the cantilevered leg and an opposing surface at the first lateral side, and wherein an aperture is provided through the second lateral side into the third conductor receiving channel.

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Amend.

9. (Amended) An electrical compression connector as in claim 1 wherein the second section further comprises a fourth conductor receiving channel extending into the second lateral side of the connector.

13. (Amended) An electrical compression connector comprising:

a first section having a first conductor receiving channel extending into a top side of the connector; and

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a second section integrally formed with the first section, the second section having a second and a third conductor receiving channel extending into opposite respective first and second lateral sides of the connector,

wherein the second conductor receiving channel comprises opposing concave surfaces having different shapes, and wherein the third conductor receiving channel comprises opposing concave surfaces and a side surface between the opposing concave surfaces having a substantially flat shape.

14. (Amended) An electrical compression connector as in claim 13 wherein the second section further comprises a fourth conductor receiving channel extending into the second lateral side of the connector, wherein the fourth conductor receiving channel is located below the third conductor receiving channel, and wherein the fourth conductor receiving channel comprises curved top, bottom and side surfaces having a same radius of curvature.

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Claim 15

15. (Amended) An electrical compression connector and electrical conductor assembly comprising:

an extruded electrical compression connector comprising a first generally U-shaped section forming a first conductor receiving channel, and a second section integrally formed with the first section, the second section comprising a second conductor receiving channel with opposing first and second curved conductor contact surfaces each having a different radius of curvature, the second section having a bottom cantilevered curved leg forming the second contact surface; and

a class K electrical conductor located in the second conductor receiving channel,

wherein, when the connector is compressed onto the conductor, the leg is deformed towards the first contact surface, and wherein a second one of the radii of curvature is at least about 25% smaller than a first one of the radii of curvature.

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19. (Amended) An electrical compression connector as in claim 15 wherein the second section comprises a curved cantilevered leg with a top surface forming a second one of the contact surfaces having the second radii of curvature.

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21. (Amended) An electrical compression connector and electrical conductor assembly comprising:

an extruded electrical compression connector comprising a first generally U-shaped section forming a first conductor receiving channel, and a second section

integrally formed with the first section, the second section comprising a second conductor receiving channel with opposing first and second curved conductor contact surfaces each having a different radius of curvature, the second section having a bottom cantilevered curved leg forming the second contact surface; and

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a class K electrical conductor located in the second conductor receiving channel,

wherein, when the connector is compressed onto the conductor, the leg is deformed towards the first contact surface,

wherein the second conductor receiving channel comprises a side surface between the opposing conductor contact surfaces having a substantially flat shape, and wherein the second section further comprises a third conductor receiving channel having opposing concave surfaces and a side surface between the opposing concave surfaces with a substantially flat shape.

Please add the following claim(s):

Subj
A7
24. (New) An electrical compression connector comprising:

a first section having a first conductor receiving channel extending into a top side of the connector; and

a second section integrally formed with the first section, the second section having a second and a third conductor receiving channel extending into opposite

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cont

respective first and second lateral sides of the connector,

wherein the second conductor receiving channel comprises opposing concave surfaces having different shapes, and a side surface between the opposing concave surfaces having a substantially flat shape.

25. (New) An electrical compression connector as in claim 24 wherein the third conductor receiving channel comprises opposing concave surfaces and a side surface between the opposing concave surfaces having a substantially flat shape.

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cont

26. (New) An electrical compression connector as in claim 24 wherein a first one of the concave surfaces has a first radius of curvature and a second one of the concave surfaces has a second different radius of curvature, and wherein the second radius of curvature is at least about 25% smaller than the first radius of curvature.

27. (New) An electrical compression connector as in claim 24 wherein the second section comprises a width which is larger than a width of the first section.

28. (New) An electrical compression connector as in claim 24 wherein the opposing concave surfaces have about a same width.

29. (New) An electrical compression connector as in claim 24 wherein a top one of the opposing surfaces comprises an outer downward extending projection and a bottom one of the opposing surfaces comprises an outer upward extending tip, and wherein the projection and tip are located opposite each other.